PDR RID Report

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Document Communication Requirements for the ECS Project, 194-220-SE3-001, 8/94

Section NA **Page** 3-2,3 **Figure Table** NA

RID ID PDR 267
Review CSMS
Originator Ref IVV-TRT-003
Priority 2

Category Name Design-ISS **Actionee** HAIS

Sub Category

Subject Wide-Area Network RMA Requirements

Description of Problem or Suggestion:

Pages 3-2,3 lists what is believed to be the key RMA requirements for determining ESN WAN availability requirements. EOSD3920 is erroneously pointed out as the most stringent requirement, with operational availability of .98.

Originator's Recommendation

Provide rationale for selection of EOSD3920 as the most stringent requirement when EOSD3840 is noted in the same paragraph having .993 availability. In addition, EOSD3900 and EOSD4030 require more availability than EOSD3920. Revisit the driving RMA requirement, in light of the requirements pointed out.

GSFC Response by: **GSFC Response Date**

HAIS Response by: Forman **HAIS Schedule** 2/28/95

HAIS R. E. B Nguyen **HAIS Response Date** 4/4/95

1) There is a misprint in the Originator's recommendation: EOSD3840 should be EOSD3940.
2) Concur. EOSD3920 is not the most stringent ESN WAN RMA requirement. The RMA requirement for the ESN WAN, as defined by EOSD4036, is that its individual segments shall be consistent with functions supported. Interpretations of the Level 3 RMA requirements are as follows:
-With the exception of EOSD3990 (Function of Data Order Submission Across DAAC), all RMA requirements from EOSD3900 to EOSD4010, which includes EOSD3920, should be applied only to the hardware within the SDPS of a specific DAAC site. Therefore, ESN WAN availability requirements fall into the non-specified RMA function requirements of EOSD3700, with the exception of EOSD 3990.
-Thus, the ESN WAN will be designed to meet an operational availability (Ao) of at least 0.96 and a Mean Down Time (MDT) of 4 hours or less (EOSD3700). The ESN WAN RMA calculation involves the ESN WAN router at each DAAC and the PSCN-provided WAN circuit connecting the two DAACs.
3) Detailed RMA calculations and their underlying assumptions were documented in DID515, Availability Models/Predictions which was submitted at the CSMS PDR timeframe and has been approved by GSFC.

Status **Closed** **Date Closed** **5/3/95** **Sponsor** **desJardins**

****** **Attachment if any** ******